## Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

**AMENDMENT** 

## **Listing of Claims:**

Please amend claim 61 as follows, without prejudice.

1	1.	(Previously Presented) A method comprising:
2		displaying a set of one or more input objects, the input objects to receive one or more
3		input decisions including an indication of a target retirement age, an indication of
4		a target level of investment risk that is constrained to be within a feasible set of
5		risk that is attainable by a particular investor via a set of financial products that
6		are available to the particular investor for investment, and an indication of a
7		retirement income goal;
8		displaying a set of one or more output values, the set of output values including an
9		indication of the probability of achieving the retirement income goal and an
10		indication of the most likely retirement income in current dollars based upon the
11		one or more input decisions and a recommended set of financial products selected
12		from the set of financial products that are available to the particular investor for
13		investment;
14		receiving an updated input decision via one or more of the input objects;
15		determining one or more new output values based upon the updated input decision; and
16		refreshing the set of one or more output values to reflect the one or more new output
17		values.

1	2.	(Original) The method of claim 1, wherein a subset of the one or more input objects and
2		a subset of the one or more output values are displayed concurrently on the same screen.

- (Original) The method of claim 1, wherein the target retirement age is constrained to be 1 3. 2 feasible.
- (Original) The method of claim 1, further comprising displaying the recommended set of 1 4. financial products, the recommended set of financial products conditional on the one or 2 more input decisions. 3
- (Original) The method of claim 4, further comprising displaying a recommended 5. 1 allocation of wealth among those of the financial products in the recommended set of financial products. 3
- (Original) The method of claim 5, wherein the recommended allocation of wealth is 6. 1 conveyed graphically. 2
- (Previously Presented) A method of providing an indication to a user of a probability of 7. 1 achieving a financial goal, the method comprising: 2
- 3 receiving a retirement income goal from the user;
- receiving one or more input decisions from the user, including an indication of a target 4 retirement age and an indication of a target level of investment risk, upon which a 5 probability distribution is dependent, the probability distribution representing a set 6 of possible future portfolio values based upon the one or more input decisions, the 7 target level of investment risk being constrained to be within a feasible set of risk 8 that is attainable by a particular investor via a set of financial products that are 9 available to the particular investor for investment; 10
- determining the probability of achieving the reprement income goal; and 11 displaying the probability of achieving the retirement income goal to the user. 12

2	8.	graphical input mechanism.
1	9.	(Original) The method of claim 7, further comprising displaying a recommended set of
2		financial products and a recommended allocation of wealth among the financial product
3		in the set of recommended financial products.
1	10.	(Original) The method of claim 7, wherein the probability of achieving the retirement
2		income goal is graphically communicated.
1	11.	(Previously Presented) A method comprising:
2		concurrently displaying
3		input objects in a first portion of a screen, the input objects configured to receive
4		one or more input decisions including a level of risk, and
5		a set of one or more output values in a second portion of the screen, the set of
6		output values including the short-term risk associated with reaching a
7		financial goal;
8		receiving an updated input decision via one of the depicted input objects;
9		determining one or more new output values based upon the updated values; and
10	,	updating the second portion of the screen to reflect the one or more new output values.
11	12.	(Original) The method of claim 11, wherein the short-term risk comprises an indication
12		of the potential financial loss that might occur with a 5% probability within the next 12
13		months.
1	13.	(Original) The method of claim 11, wherein the one or more output values are
2		graphically communicated.
1	Clain	ns 14-17 (canceled)

1	18.	(Previously Presented) A method comprising:
2		displaying one or more input objects in a first portion of a first screen, the input objects
3		configured to receive one or more input decisions including a financial goal, from
4		which a recommendation is determined, the recommendation including a
5 .	_	recommended allocation of wealth among a set of available financial products
6		that are available to a particular investor for investment; and
7	displa	ying a set of output values in a second portion of the first screen, the set of output values
8		including a probability of achieving the financial goal based upon the recommendation.
1	19.	(Original) The method of claim 18, wherein the one or more input decisions include an
2		indication of a target retirement age.
1	20.	(Previously Presented) An apparatus comprising:
2		means for displaying a set of one or more input objects, the input objects to receive one
3		or more input decisions including an indication of a target retirement age, an
4		indication of a target level of investment risk that is constrained to be within a
5		feasible set of risk that is attainable to a particular investor via a set of financial
6		products that are available to the particular investor for investment, and an
7		indication of a retirement income goal;
8		means for displaying a set of one or more output values, the set of output values
9		including an indication of the probability of achieving the retirement income goal
0		and an indication of the most likely retirement income in current dollars based
1		upon one or more input decisions and a recommended set of financial products
12		selected from the set of financial products that are available to the particular
13		investor for investment;
		means for receiving an undated input decision via one or more of the input objects;

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15		means for determining one or more new output values based upon the updated input
16		decision, and
17		means for refreshing the set of one or more output values to reflect the one or more new
18		output values.
1	21.	(Original) The apparatus of claim 20, further comprising a means for displaying the
2		recommended set of financial products, the recommended set of financial products
3		conditional on the one or more input decisions.
1	22.	(Original) The apparatus of claim 21, wherein the recommended allocation of wealth is
2		conveyed graphically.
ı	23.	(Previously Presented) A method comprising the steps of:
2		a step for displaying a set of one or more input objects, the input objects to receive one or
3		more input decisions including an indication of a target retirement age, an
4		indication of a target level of investment risk that is constrained to be within a
5		feasible set of risk that is attainable by a particular investor via a set of financial
6		products that are available to the particular investor for investment, and an
7		indication of a retirement income goal;
8		a step for displaying a set of one or more output values, the set of output values including
9	ra .	an indication of the probability of achieving the retirement income goal and an
10		indication of the most likely retirement income in current dollars based upon the
11		one or more input decisions and a recommended set of financial products selected
12		from the set of financial products that are available to the particular investor for
13		investment;
14		a step for receiving an updated input decision via one or more of the input objects;
15		a step for determining one or more new output values based upon the updated input
16		decision; and

17		a step for refreshing the set of one or more output values to reflect the one or more new
18		output values.
1	24.	(Original) The method of claim 23, wherein the target retirement age is constrained to be
2		feasible.
1	25.	(Original) The method of 24, wherein the target level of investment risk is received via a
2		graphical input mechanism.
1	26.	(Previously Presented) An apparatus comprising:
2		means for displaying one or more input objects in a first portion of a first screen, the
3		input objects configured to receive one or more input decisions including a
4		financial goal, from which a recommendation is determined, the recommendation
5		including a recommended allocation of wealth among a set of available financial
6		products that are available to a particular investor for investment;
7		means for displaying a set of output values in a second portion of the first screen, the set
8		of output values including a probability of achieving the financial goal based upon
9		the recommendation; and
10		means for graphically depicting the recommended allocation of wealth among the set of
11		available financial products in a second screen.
1	27.	(Original) The apparatus of claim 26, wherein the one or more input decisions includes
2		an indication of a target retirement age.
1	28.	(Previously Presented) A method comprising the steps of:
2		a step for displaying one or more input objects in a first portion of a first screen, the input
3		objects configured to receive one or more input decisions including a financial
4		goal, from which a recommendation is determined, the recommendation including

5		a recommended affocation of wealth among a set of available thrancial products
6		that are available to a particular investor for investment;
7		a step for displaying a set of output values in a second portion of the first screen, the set
8		of output values including a probability of achieving a financial goal based upon
9		the recommendation; and
10		a step for graphically depicting the recommended allocation of wealth among the set of
11		available products in a second screen.
1	29.	(Original) The method of claim 28 wherein the one or more input objects includes a
2		target level of investment risk.
1	30.	(Previously Presented) A server comprising:
2		a processor; and
3		a memory coupled with the processor to store a financial advisory system;
4		the processor to send information to a client machine to display on the client machine:
5		one or more input objects in a first portion of a first screen, the input objects
6		configured to receive one or more input decisions including a financial
7		goal, from which a recommendation is determined, the recommendation
8		including a recommended allocation of wealth among a set of available
9		financial products that are available to a particular investor for investment
10		a set of output values in a second portion of the first screen, the set of output
11		values including a probability of achieving a financial goal based upon the
12		recommendation; and
13		a graphical depiction of the recommended allocation of wealth among the set of
14		available financial products in a second screen.

1	31.	(Original) The server of claim 30, wherein the one or more input objects includes an
2		indication of a target level of investment risk, and an indication of a retirement income
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1	32.	(Previously Presented) A method comprising:
2		concurrently displaying
3		a set of one or more input objects, the input objects to receive one or more input
4		decisions including an indication of a target retirement age, an indication
5		of a retirement income goal, and an indication of a target level of
6		investment risk that is constrained to be within a feasible set of risk that is
7		attainable by a particular investor via a set of financial products that are
8		available to the particular investor for investment; and
9		a set of one or more output values, the set of output values including the most
10		likely value at retirement of a recommended portfolio of one or more
11		financial products selected from the set of financial products that are
12		available to the particular investor for investment;
13		receiving an updated input decision via one or more of the input objects;
14		determining one or more new output values based upon the updated input decision; and
15		refreshing the set of one or more output values to reflect the one or more new output
16		values.
1	33.	(Original) The method of claim 32, wherein the target retirement age is constrained to be
2		feasible.
1	34.	(Previously Presented) A method comprising:
2		receiving an indication of a retirement income goal for a particular investor;
3		displaying a set of one or more input objects within a user interface screen, the input

objects to receive one or more input decisions including an indication of a target

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retirement age for the particular investor and an indication of a target level of
investment risk for the particular investor that is constrained to be within a
feasible set of risk that is attainable by the particular investor via a set of financial
products that are available to the particular investor for investment; and
displaying a set of one or more output values within the user interface screen, the set of
output values including an indication of the probability of achieving the
retirement income goal and an indication of the most likely retirement income in
current dollars based upon the retirement income goal, the one or more input
decisions, and a recommended allocation of wealth among one or more financial
products of the set of financial products that are available to the particular
investor for investment.

- 1 35. (Previously Presented) The method of claim 34, further comprising displaying a
  2 representation of the recommended allocation of wealth by graphically depicting relative
  3 allocations of wealth among those of the financial products of the set of financial
  4 products included in a recommended portfolio.
- 1 36. (Previously Presented) The method of claim 34, further comprising identifying a
  2 relationship between future returns of each financial product of the set of financial
  3 products and future returns of combinations of one or more factor asset classes of a set of
  4 factor asset classes by determining each financial product's effective asset mix with
  5 respect to the set of factor asset classes.
- 1 37. (Previously Presented) The method of claim 36, wherein said determining each financial
  2 product's effective asset mix with respect to the set of factor asset classes comprises
  3 performing returns-based style analysis.

1	38.	(Previously Presented) The method of claim 30, wherein said determining each unancial
2		product's effective asset mix with respect to the set of factor asset classes comprises
3		surveying the underlying assets held in the financial product.
1	39.	(Previously Presented) The method of claim 36, wherein said determining each financial
2		product's effective asset mix with respect to the set of factor asset classes comprises
3		obtaining exposure information based on a target benchmark associated with the financia
4		product.
1	40.	(Previously Presented) The method of claim 36, further comprising determining
2		expected returns and volatility of returns for each of a plurality of efficient portfolios
3		based upon the relationship and the one or more input decisions, each of the plurality of
4		efficient portfolios including a combination of one or more of the financial products from
5		the set of financial products.
1	41.	(Previously Presented) The method of claim 40, further comprising selecting the
2		recommended portfolio from the plurality of efficient portfolios by identifying an
3		efficient portfolio of the plurality of efficient portfolios that maximizes an expected
4		utility of wealth for the particular investor.
1	42.	(Previously Presented) The method of claim 36, further comprising:
2		forecasting returns associated with each core asset class of a set of core asset classes by
3		generating core asset class scenarios based upon future scenarios of one or more
4		economic factors with an equilibrium econometric model; and
5		forecasting returns associated with each factor asset class of the set of factor asset classes
6		by generating factor model asset scenarios based upon the core asset class
7		scenarios.

1	43.	(Previously Presented) A method comprising:
2		receiving an indication of a financial goal of a particular investor;
3		receiving input decisions that relate to tradeoffs in connection with pursuing the financial
4		goal, the input decisions comprising an indication of a time horizon that is
5	-	acceptable to the particular investor, an indication of a level of investment risk
6		that is acceptable to the particular investor and that is constrained to be within a
7		feasible set of risk that is attainable by a particular investor via a set of financial
8		products that are available to the particular investor for investment, and an
9		indication of a level of savings that is acceptable to the particular investor;
10		determining a recommended portfolio of one or more financial products from the set of
11		financial products that are available to the particular investor for investment based
12		upon the input decisions;
13		determining the probability of the particular investor achieving the financial goal based
14		upon a probability distribution representing a set of possible future portfolio
15		values of the recommended portfolio upon expiration of the time horizon by
16		evaluating the cumulative probability that meets or exceeds the financial goal; and
17		providing feedback regarding the likelihood of achieving the financial goal in view of the
18		input decisions by displaying an indication of the probability of the particular
19		investor achieving the financial goal in response to receipt of the input decisions.
1	44.	(Previously Presented) The method of claim 43, further comprising displaying a
2		representation of the recommended portfolio by graphically depicting allocations of
3		wealth among those of the financial products of the set of financial products included in
4		the recommended portfolio.
1	45.	(Previously Presented) The method of claim 43, further comprising identifying a
2		relationship between future returns of each financial product of the set of financial
3		products and future returns of combinations of one or more factor asset classes of a set of

4	factor asset classes by determining each financial product's effective asset mix with
5	respect to the set of factor asset classes.

- 1 46. (Previously Presented) The method of claim 45, wherein said determining each financial
  2 product's effective asset mix with respect to the set of factor asset classes comprises
  3 performing returns-based style analysis.
- 1 47. (Previously Presented) The method of claim 45, wherein said determining each financial
  2 product's effective asset mix with respect to the set of factor asset classes comprises
  3 surveying the underlying assets held in the financial product.
- 1 48. (Previously Presented) The method of claim 45, wherein said determining each financial
  2 product's effective asset mix with respect to the set of factor asset classes comprises
  3 obtaining exposure information based on a target benchmark associated with the financial
  4 product.
- 1 49. (Previously Presented) The method of claim 45, further comprising determining
  2 expected returns and volatility of returns for each of a plurality of efficient portfolios
  3 based upon the relationship and one or more of the input decisions, each of the plurality
  4 of efficient portfolios including a combination of one or more of the financial products
  5 from the set of financial products.
- 1 50. (Previously Presented) The method of claim 49, wherein said determining a
  2 recommended portfolio comprises identifying an efficient portfolio of the plurality of
  3 efficient portfolios that maximizes an expected utility of wealth for the particular
  4 investor.

1	51.	(Previously Presented) The method of claim 45, further comprising.
2		forecasting returns associated with each core asset class of a set of core asset classes by
3		generating core asset class scenarios based upon future scenarios of one or more
4		economic factors with an equilibrium econometric model; and
5		forecasting returns associated with each factor asset class of the set of factor asset classes
6		by generating factor model asset scenarios based upon the core asset class
7		scenarios.
1	52.	(Previously Presented) A method comprising:
2		receiving an indication of a financial goal of a particular investor; and
3		allowing an end user to interactively explore tradeoffs among time, savings, and risk and
4		their impact on a probability of the particular investor achieving the financial goal
5		by
6		displaying one or more input objects in a first portion of a user interface screen,
7		the one or more input objects being constrained to receive feasible input
8		decisions relating to variables involved in pursuing the financial goal, the
9		input decisions comprising an indication of a time horizon that is
10		acceptable to the particular investor, an indication of a level of investment
11		risk that is acceptable to the particular investor, and an indication of a
12		level of savings that is acceptable to the particular investor;
13		determining a recommended portfolio of one or more financial products from a
14		set of financial products that are available to the particular investor for
15		investment based upon the input decisions; and
16		displaying a set of output values in a second portion of the user interface screen,
17		the set of output values comprising an indication of the probability of the
18		particular investor achieving the financial goal based upon the
10		recommended portfolio and the time horizon.

ı	<b>53</b> .	(Previously Presented) The method of claim 52 further comprising displaying a
2		representation of the recommended portfolio by graphically depicting allocations of
3		wealth among those of the financial products of the set of financial products included in
4		the recommended portfolio.

- (Previously Presented) The method of claim 52, further comprising identifying a 54. 1 relationship between future returns of each financial product of the set of financial 2 products and future returns of combinations of one or more factor asset classes of a set of 3 factor asset classes by determining each financial product's effective asset mix with respect to the set of factor asset classes. 5
- (Previously Presented) The method of claim 52, wherein said determining each financial 55. 1 product's effective asset mix with respect to the set of factor asset classes comprises 2 3 performing returns-based style analysis.
- (Previously Presented) The method of claim 52, wherein said determining each financial 56. 1 product's effective asset mix with respect to the set of factor asset classes comprises 2 surveying the underlying assets held in the financial product. 3
- (Previously Presented) The method of claim 52, wherein said determining each financial 57. 1 product's effective asset mix with respect to the set of factor asset classes comprises 2 obtaining exposure information based on a target benchmark associated with the financial 3 product. 4
- (Previously Presented) The method of claim 52, further comprising determining 58. 1 expected returns and volatility of returns for each of a plurality of efficient portfolios 2 based upon the relationship and one or more of the input decisions, each of the plurality 3 of efficient portfolios including a combination of one or more of the financial products 4 from the set of financial products. 5

1	<b>59</b> .	(Previously Presented) The method of claim 58, wherein said determining a
2		recommended portfolio comprises identifying an efficient portfolio of the plurality of
3		efficient portfolios that maximizes an expected utility of wealth for the particular
4		investor.
1	60.	(Previously Presented) The method of claim 54, further comprising:
2		forecasting returns associated with each core asset class of a set of core asset classes by
3		generating core asset class scenarios based upon future scenarios of one or more
4		economic factors with an equilibrium econometric model; and
5		forecasting returns associated with each factor asset class of the set of factor asset classes
6		by generating factor model asset scenarios based upon the core asset class
7		scenarios.
1	61.	(Currently Amended) A method comprising:
2		one or more computer systems determining a recommended allocation of wealth among a
3		set of financial products that are available for investment by a particular investor,
4		the set of financial products comprising one or more mutual funds, said
5		determining being based upon (a) a financial goal identified by the particular
6		investor, and (b) input decisions relating to variables involved in pursuing the
7		financial goal, the input decisions comprising an indication of a time horizon that
8		is acceptable to the particular investor, an indication of a level of investment risk
9		that is acceptable to the particular investor, and an indication of a level of savings
10		that is acceptable to the particular investor, and
11		the one or more computer systems graphically depicting the recommended allocation of
12		wealth among the one or more financial products of the set of available financial
13		products.

1	62.	(Previously Presented) The method of claim 61, further comprising displaying an
2		indication of a probability of the particular investor achieving the financial goal based
3		upon the recommended allocation of wealth and the time horizon.

- (Previously Presented) The method of claim 61, further comprising identifying a relationship between future returns of each financial product of the set of financial products and future returns of combinations of one or more factor asset classes of a set of factor asset classes by determining each financial product's effective asset mix with respect to the set of factor asset classes.
- (Previously Presented) The method of claim 61, wherein said determining each financial product's effective asset mix with respect to the set of factor asset classes comprises performing returns-based style analysis.
- 1 65. (Previously Presented) The method of claim 61, wherein said determining each financial
  2 product's effective asset mix with respect to the set of factor asset classes comprises
  3 surveying the underlying assets held in the financial product.
- 1 66. (Previously Presented) The method of claim 63, wherein said determining each financial
  2 product's effective asset mix with respect to the set of factor asset classes comprises
  3 obtaining exposure information based on a target benchmark associated with the financial
  4 product.
- 1 67. (Previously Presented) The method of claim 63, further comprising determining
  2 expected returns and volatility of returns for each of a plurality of efficient portfolios
  3 based upon the relationship and the one or more input decisions, each of the plurality of
  4 efficient portfolios including a combination of one or more of the financial products from
  5 the set of financial products.

1	68.	(Previously Presented) The method of claim 67, further comprising selecting a
2		recommended portfolio from the plurality of efficient portfolios by identifying an
3		efficient portfolio of the plurality of efficient portfolios that maximizes an expected
4		utility of wealth for the particular investor.
1	69.	(Previously Presented) The method of claim 63, further comprising:
2		forecasting returns associated with each core asset class of a set of core asset classes by
3		generating core asset class scenarios based upon future scenarios of one or more
4		economic factors with an equilibrium econometric model; and
5		forecasting returns associated with each factor asset class of the set of factor asset classes
6		by generating factor model asset scenarios based upon the core asset class
7	,	scenarios.
1	70.	(Previously Presented) A method comprising:
2		identifying a relationship between future returns of each financial product of a set of
3		financial products that are available to a particular investor for investment and
4		future returns of combinations of one or more factor asset classes of a set of factor
5		asset classes by determining each financial product's effective asset mix with
6		respect to the set of factor asset classes;
7		receiving an indication of a financial goal of a particular investor;
8		displaying a set of one or more input objects to receive input decisions relating to
9		variables involved in pursuing the financial goal, the input decisions comprising
10		an indication of a time horizon that is acceptable to the particular investor, an
11		indication of a level of investment risk that is acceptable to the particular investor,
12		and an indication of a level of savings that is acceptable to the particular investor;
13		determining expected returns and volatility of returns for each of a plurality of efficient
14		portfolios based upon the relationship and the input decisions, each of the

15		plurality of efficient portfolios including a combination of one or more of the
16		financial products from the set of financial products;
17		identifying a recommended portfolio of the plurality of efficient portfolios by selecting an
18		efficient portfolio of the plurality of efficient portfolios that maximizes an
19		expected utility of wealth for the particular investor; and
20		displaying a representation of the recommended portfolio by graphically depicting
21		relative allocations of wealth among those of the financial products of the set of
22		financial products included in the recommended portfolio.
1	71.	(Previously Presented) The method of claim 70, wherein said determining each financial
2		product's effective asset mix with respect to the set of factor asset classes comprises
3		performing returns-based style analysis.
1	72.	(Previously Presented) The method of claim 70, wherein said determining each financial
2		product's effective asset mix with respect to the set of factor asset classes comprises
3		surveying the underlying assets held in the financial product.
1	73.	(Previously Presented) The method of claim 70, wherein said determining each financial
2		product's effective asset mix with respect to the set of factor asset classes comprises
3		obtaining exposure information based on a target benchmark associated with the financial
4		product.
1	74.	(Previously Presented) The method of claim 70, further comprising:
2		forecasting returns associated with each core asset class of a set of core asset classes by
3		generating core asset class scenarios based upon future scenarios of one or more
4		economic factors with an equilibrium econometric model; and
5		forecasting returns associated with each factor asset class of the set of factor asset classes
6		by generating factor model asset scenarios based upon the core asset class
7		scenarios.

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1	<b>75</b> .	(Previously Presented) The method T claim 70, wherein the maneral goat comprises a
2		retirement income goal.
1	76.	(Previously Presented) The method of claim 75, wherein the indication of the time
2		horizon comprises an indication of a target retirement age for the particular investor.
1	77.	(Previously Presented) The method of claim 76, wherein the set of financial products
2		that are available to the particular investor for investment comprise those that are
3		available to the particular investor through one or more defined contribution plans.
1	78.	(Previously Presented) A method comprising:
2		a step for identifying a relationship between future returns of each financial
3		product of a set of financial products that are available to a particular investor for
4		investment and future returns of combinations of one or more factor asset classes of a set
5		of factor asset classes by determining each financial product's effective asset mix with
6		respect to the set of factor asset classes;
7		a step for receiving an indication of a financial goal of a particular investor;
8		a step for displaying a set of one or more input objects to receive input decisions relating
9		to variables involved in pursuing the financial goal, the input decisions
10		comprising an indication of a time horizon that is acceptable to the particular
11		investor, an indication of a level of investment risk that is acceptable to the
12		particular investor, and an indication of a level of savings that is acceptable to the
13		particular investor;
14		a step for determining expected returns and volatility of returns for each of a plurality of

efficient portfolios based upon the relationship and the input decisions, each of

16	the plurality of efficient portfolios including a combination of one or more of the
17	financial products from the set of financial products;
18	a step for identifying a recommended portfolio of the plurality of efficient portfolios by
19	selecting an efficient portfolio of the plurality of efficient portfolios that
20	maximizes an expected utility of wealth for the particular investor; and
21	a step for displaying a representation of the recommended portfolio by graphically
22	depicting relative allocations of wealth among those of the financial products of
23	the set of financial products included in the recommended portfolio.